The Commonwealth of Massachusetts

DIVISION OF STATE COLLEGES
WORCESTER STATE COLLEGE

1973
FALL SESSION

BEGINNING SEPTEMBER 10, 1973

Program of
Continuing Education

TELEPHONE: 799-2405 or 756-5121

GENERAL INFORMATION

The courses announced in this bulletin are offered by the Massachusetts Division of State Colleges in cooperation with Worcester State College. The Division of State Colleges reserves the right to cancel any course which does not have a minimum of twenty enrollments.

Both graduate and under-graduate courses are offered. Courses carrying under-graduate credit only are numbered in the 7-series; courses carrying both graduate and under-graduate credit are numbered in the 8-series; courses carrying graduate credit only are numbered in the 9-series.

REGISTRATION POLICY

Matriculating students in Master's or Bachelor's program may register September 4, 5 1973 from 3:00-4:30 p.m. All other students who desire to register for course offerings will register September 6, 7, 1973 from 3:00-4:30 p.m.

Registration will be held at the Worcester State College Graduate Office, Room S-112, Science-Laboratory Building.

Matriculation cards must be passed in at the time of registration. No multiple Registrations. One Person-One Registrant.

TUITION AND FEES

Our bookkeeping operation cannot accommodate cash payment or partial or installment payments of tuition or fees. Check or money order for the full amount of tuition and fees is due at the time of registration.

TUITION	
Massachusetts Resident	$22.00 per semester hour
Non-Resident	29.00 per semester hour
Audit (Resident and Non-Resident)	15.00 per semester hour
FEES	
Registration Fee Per Semester	10.00 (Non-Refundable)
Library Fee Per Semester	10.00 (Non-Refundable)
Late Registration Fee	2.00
Course Change Fee	2.00
Graduate Fee (Persons receiving degrees)	5.00

Under no circumstances will any of the Registration and Library Fees be returned.

A payment of tuition and-or fees made at the time of registration with a bad check will result in the cancellation of the student's registration until the tuition and-or fees and the penalty are properly paid. The penalty fee for tendering a bad check is $10.00.

All Tuition and Fees are due the day of Registration and are payable by check or money order.

TUITION REFUNDS

Students who withdraw from courses within the established time period will be granted refunds as follows:

Withdrawn prior to the second class meeting	100% refund
Withdrawn prior to the third class meeting	80% refund
Withdrawn prior to the fourth class meeting	60% refund
Withdrawn after the fourth class meeting	No refund

No refund is permitted if the course status is changed from credit to audit.

A student who is entitled to a refund must obtain a form for each course for which a refund is due and file it with the Office of the Program of Continuing Education. Forms are available at the Office of the Program of Continuing Education. Telephone and other unofficial notices will not be accepted as notification of withdrawal.

The day and time that the notice is received will be the official date of withdrawal.

WITHDRAWAL

Ceasing to attend a class does not constitute official withdrawal from a course. If notice is not given to the Office of Continuing Education a grade of failure will be recorded.

VETERANS

WORLD WAR II AND KOREAN

Any resident of Massachusetts who has served in any branch of the armed forces for at least ninety days, one of which must have been served either between September 16, 1940 and December 31, 1946, or between June 25, 1950 and January 31, 1955 and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitations of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photostatic copy) or a certificate of satisfactory service in the case of an officer together with proof of residence in advance of the opening date of the class meeting. Veterans in this category must show proof of their ineligibility for education benefits under P.L. 351, Chapter 34.

VIETNAM AND COLD WAR VETERANS

Veterans in this category who are ineligible for educational benefits under P.L. 351, Chapter 34 and who are registered in a Bona Fide Bachelor or Master's degree program may be exempt from tuition payment under the following conditions:

1. That they show proof of not being eligible for Federal Education Benefits.
2. That they still have eligibility under Massachusetts General Laws.

It is very unlikely that any Vietnam or Cold War Veteran would be eligible for tuition free courses since the passing of the recent legislation of Chapter 514 on tuition free veteran courses in the Program of Continuing Education.

For Registration purposes all veterans who are not exempt from paying tuition must register on non-veteran registration cards.

CREDIT

Regulations and requirements for degree study may be obtained at the Office of the Director of Continuing Education, Worcester State College. It is urgently recommended that the guidance and advice of the Director and your faculty advisor in your field of concentration, wherein you must have five approved courses, be sought and faithfully followed in the planning of a program of study. For teachers in service, a maximum of six semester hours per semester may be credited toward a degree. The Graduate Record Examination required of all graduate degree students will be conducted at Worcester State College, registration through Educational Testing Service, Princeton, New Jersey should be completed three weeks prior to the test. Test Dates: October 27, December 8, 1973, and January 19, 1974.

For degree candidates, only the "aptitude" part of this test is required. It must be taken during the first year of graduate study.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater (including Hyannis Summer Session), Fitchburg Framingham, North Adams, Salem, Westfield and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other state colleges and the Massachusetts College of Art, subject to advance approval by Worcester State College.

The Graduate Comprehensive Examination will be conducted on November 30, 1973, at 4:00 p.m.

All degree candidates must file and "Intention to Graduate" form with the director in Room S-112 when registering for the Final Course.

LIBRARY CARDS: If you do not have a library card, please register for one at the Learning Resources Center.

POST Ed.M. STUDENTS MUST RECEIVE THE HONOR GRADES OF A OR B FOR CREDIT.

Assistance in selection and registering in all courses is available in Room S-112, Science-Laboratory Building, Worcester State College, Graduate Office. Telephone: 799-2405 or 756-5121.

Students must park in the Student Parking Areas behind the Science-Laboratory Building or the side and the rear of the Gymnasium Building.

FACULTY

JOHN F. EAGER, B.S., Ed.M., Director: Program of Continuing Education
PAUL F. O'NEIL, B.S., B.S., Ed.M., Associate Director
NORA BARRAFORD, A.B., M.A., M.F.A.
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NEIL BROPHY, B.A., M.A.
ROBERT BURMEISTER, B.S., M.A., Ph.D.
WILLIAM BYERS, A.B., B.D.
ANTHONY CAPOZZA, B.S., Ed.M.
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LOUIS J. CELONA, B.M., M.M., M.A.
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CONCANNON, JOSEPHINA S., B.S., Ed.M., Ed.D.
CAROL CHAUVIN, B.S., M.S., Ph.D.
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BARBARA DESROSIERS, B.A., Ed.M.
DANIEL DICK, B.A., M.F., M.L.S.
MARY T. DOLPHIN, A.B., Ed.M.
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ALFRED F. EDDY, A.B., M.A.
PAUL J. EDMUNDS, A.B., M.A., Ph.D.
ROBERT P. ELLIS, A.B., M.A.
LEONARD F. FARREY, B.S., Ed.M.
HELENE FREED, B.S., Ed.M.
CHARLES E. GEER, B.S., M.S. Ph.D.
RICHARD J. GILMARTIN, A.B., M.A.
CHARLES T. GOLDSTONE, B.S., Ed.M.
ROBERT W. GOSS, B.S., Ed.M., Ed.D.
TERRY GRAHAM, A.B., M.S., Ph.D.
RUTH GRIFFITHS, B.S., M.A., Ed.D.
BERNARD J. GUARINI, A.B., M.A.
RONALD HARRIS, A.B., M.A., Ph.D.
W. MACK HILL, B.S., M.S., Ph.D.
DAVID W. HILTON, B.S.E., Ed.M., Ph.D.
JOSEPH S. HOPKINS, A.B., M.L.S.

MARION J. JENNINGS, B.S.E., Ed.M., Ph.D.
ROBERT T. JONES, B.S., M.S., Ph.D.
GEORGE T. JOSEPH, B.S., Ed.M.
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GEORGE T. KELLEY, A.B., M.A., Ph.D.
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MELVIN MERKEN, B.S., M.A., Ed.D.
MICHEL MERLE, B.A., M.A.
GARRETT MITCHELL, B.S., M.A.
RICHARD A. O'CONNOR, B.S., M.A.
J. FRANCIS O'MARA, A.B., Ed.M., M.A., Ph.D.
CHAD OSBORNE, B.A., M.A.
FRANK C. PIZZIFERRI, B.S., M.S., Ed.D.
JOSEPHINE T. POLITO, B.S., M.S.
THEODORE PROVO, B.S., Ed.M., Ph.D.
CATHERINE I. QUINT, B.S., Ed.M., Ed.D.
DAVID H. QUIST, A.B., M.A., Ed.D.
ROBERT W. REDDING, B.S., M.S., Ph.D.
JEFFREY L. ROBERTS, A.B., M.A., Ph.D.
THOMAS ROBERTS, A.B., M.S., Ph.D.
COURTNEY SCHLOSSER, A.B., Ed.M., Ed.D.
JOHN E. SCOLA, A.B., L.L.B., J.D.
JOSEPH A. SHEA, B.S., Ed.M., Ph.D.
KATHERINE M. SHEA, A.B., Ed.M., M.A.
PHILIP STEINKRAUSS, B.A., M.A.
WILLIAM SULLIVAN, A.B., A.M., Ph.D.
G. FLINT TAYLOR, A.B., Ed.M., C.A.G.S., Ph.D.
DONALD F. TRAUB, A.B., M.A., Ph.D.
DAVID J. TWISS, B.S.E., Ed.M., M.A.
ROBERT L. WALKER, A.B., M.A.
JOSEPH E. ZEGARRA, B.A., M.A., Ed.D.

ALL COURSES CARRY THREE SEMESTER HOURS OF CREDIT

No.	*Course Title*	*Instructor*	*Room*
MONDAYS, 4:00-6:30 p.m., BEGINNING SEPTEMBER 10, 1973			
F8-198	Johnson and Boswell	William L. Sullivan	S-219A
F8-664	Totalitarian Patterns of Government	Gertrude Leeds	S-225B
MONDAYS, 4:30-7:00 P.M. BEGINNING SEPTEMBER 10, 1973			
F8-046	Auditory Training and Speech Reading	Helene Freed	S-126
F8-065	Occupational Information	G. Flint Taylor	S-226
F8-305	Reading in the Content Areas (Int)	(to be announced)	S-228
F8-470	Sociology of Education	Frank C. Pizziferri	S-225A
F8-775	Intro Philosophical Fnds of Education, Sec A	William K. Masterson	S-231
F8-879	Ichthyology	Terry Graham	S-132
F9-051	Research in Education, Sec A	Alfred F. Eddy	S-217
F9-087	Supervision in Todays' Schools	Ruth Griffiths	S-227
F9-092	Public School Administration	Theodore Provo	S-212
TUESDAYS, 4:30-7:00 P.M. BEGINNING SEPTEMBER 11, 1973			
F8-152	Children's Literature	Mary Meegan	S-217
F8-159	Principles of Graphic Communication	Garrett Mitchell	LRC-112
F8-160	Producing and Directing the Television Program	Robert Jones	LRC-160
F8-175	Contemporary Drama	Jeffrey Roberts	S-225A
F8-610	Fundamental Spanish I	Katherine M. Shea	S-225B
F8-861	Elementary Space Science	Harold Chapman	S-224
F9-069	Individual Intelligence Appraisal (Binet)	David H. Quist	S-227
F9-079	Administrators and Reading	J. Francis O'Mara	S-226
F9-776	Advanced Philosophical Fnds of Education, Sec A	Donald F. Traub	S-231
F9-814	Education of the Gifted	Sr. Josephina Concannon	S-214
WEDNESDAYS, 4:00-6:30 p.m., BEGINNING SEPTEMBER 12, 1973			
	Nineteenth Century French Literature	Vincent DeBenedictis	S-217
WEDNESDAYS: 4:30-7:00 p.m., BEGINNING SEPTEMBER 12, 1973			
F8-010	Secondary Social Studies Curriculum	Joseph E. Zegarra	S-219B
F8-003	Individualizing Instruction in Elementary School Science	Charles E. Geer	S-227
F8-045	Rhythm Problems and Allied Disorders of Speech	John McLaughlin	S-128
F8-105	Student Centered Language Arts Curriculum	Chad Osborne	S-228

No.	*Course Title*	*Instructor*	*Room*
F8-165	Introduction to Slide-Tape Program	Charles T. Goldstone	LRC-112
F8-202	Literature and Social Change	Robert Walker	S-211B
F8-221	Medical Sociology	Baheej Khleif	S-231
F8-296	Athletic Injuries-Prevention and Cure	Francis T. Dyson	S-211A
F8-576	Number Theory	Robert Redding	S-225B
F8-611	Readings in Spanish Literature	Katherine M. Shea	S-219A
F8-648	State and Local Government	David J. Twiss	S-225
F9-182	The Victorian Period	Paul Edmunds	S-226
F9-752	Advanced Psychological Fnds of Education, Sec A	Joseph A. Shea	S-224
F9-875	Science, Technology and Society	Melvin Merken	S-301

THURSDAYS, 4:30-7:00 p.m.,
BEGINNING SEPTEMBER 13, 1973

F8-075	Curriculum for Early Childhood Education	Josephine Polito	S-227
F8-173	The Gothic Novel	Nora Barraford	S-225B
F8-261	Art for the Classroom Teacher	Mary T. Dolphin	Art Room
F8-419	Introduction to Geology	Robert E. Lingner	A-315
F8-581	Linear Algebra	W. Mack Hill	S-225A
F8-749	Theories of Personality	Richard A. O'Connor	S-231
F8-750	Introduction to Psychological Fnds of Education	Joseph Lonergan	S-217
F8-956	Social Genetics	Thomas Roberts	S-132
F9-057	Current Trends in The Teaching of Reading	Marion Jennings	S-228
F9-082	Urban Education	Catherine I. Quint	S-224
F9-097	School Finance I	Robert W. Goss	S-226
F9-88	Organization and Administration Elementary School in 70's	George T. Joseph	S-214

EVENING CLASSES

TUESDAY EVENINGS, 7:00-9:30 p.m.
BEGINNING SEPTEMBER 11, 1973

F8-015	Characteristics of Children with Learning Problems to Wed.	Barbara Desrosiers	S-224
F8-201	The American Identity	Robert P. Ellis	S-211A
F8-224	Understanding Economic Issues	George Kelley	S-211B
F8-254	Environmental Design I	Doris Carter	Art Room
F8-480	Delinquency in Education	Francis Brooker	S-219A
F9-066	Pupil Personnel Services	Philip Steinkrauss	S-227
F9-090	School Law	John E. Scola	S-212
F9-753	Advanced Psychological Fnds of Education, Sec B	Bernard Guarini	S-217

WEDNESDAY EVENINGS, 7:00-9:30 p.m.,
BEGINNING SEPTEMBER 12, 1973

F8-164	Library Research	Joseph S. Hopkins	LRC-112
F8-072	Driver and Traffic Safety Education	Anthony Capozza	S-219A
F8-251	Music Appreciaton	Louis Celona	S-124

No.	*Course Title*	*Instructor*	*Room*
F8-258	Drawing in Various Media	Doris Carter	Art Room
F8-264	Design with Wood	Michel Merle-Daniel Dick	G-23
F8-278	Advanced Photography	William Byers	LRC-122
F8-294	Health Systems in America	Robert Burmeister	G-22
F8-775	Introduction to Philosophical Fnds of Education, Sec. B	Courtney Schlosser	S-224
F9-052	Research in Education, Sec B	David W. Hilton	S-214
F9-063	Techniques of Counseling	Leonard Farrey	S-217
F9-777	Advanced Philosophical Fnds of Education, Sec B	Neil Brophy	S-228
F9-949	Reproductive Physiology	Carol Chauvin	S-132

THURSDAY EVENINGS, 7:00-9:30 p.m.,
BEGINNING SEPTEMBER 13, 1973

F8-060	Principles and Practices in Guidance	Joseph Scannell	S-217
F8-062	Counseling and Psycho-Therapy	Richard Gilmartin	S-226
F8-098	The Computer as an Instructional Aid	John Dowling	Ampi-theatre
F8-199	Jacobean Drama	Paul Edmunds	S-224
F8-647	The Isolationist "Iceberg" and American Foreign Policy, 1914-1972	Robert G. Kane	S-225B
F8-748	Inter-Personal and Trans-Personal Experiencing	Courtney Schlosser	S-211A
F8-863	Physical Chemistry for the Life Sciences	Ronald Harris	S-301

COURSE DESCRIPTIONS

MONDAYS 4:00-6:30 p.m.

F8-198 Johnson and Boswell **S-219A**

Selected writings of Boswell, Gibbon, Burke, Goldsmith and other members of Johnson's Circle will be read, as well as those of Johnson himself. Emphasis will be placed on the thought and style of these Neo-Classic Writers.

Johnson's position ad lexicographer and critic will be discussed. Boswell's contributions to biography of THE LIFE OF JOHNSON and his recently discovered diaries will be evaluated.

William L. Sullivan — Mondays: 4:00-6:30 p.m.
3 Semester Hours — Beginning: September 10, 1973

F8-664 Totalitarian Patterns of Government **S-225B**

The nature, basic philosophy, personnel and implementation of the three typical modern totalitarian types of government-Communism, Fascism and Nazism.

Gertrude Leeds — Mondays: 4:00-6:30 p.m.
3 Semester Hours — Beginning: September 10, 1973

MONDAYS 4:30-7:00 p.m.

F8-046 Auditory Training and Speech Reading: Hearing Rehabilitation **S-126**

The theory of speech reading as a receptive process with an analysis of the various systems for developing speech reading skills with children and adults. A study of the recent concepts in maximum utilization of all residual hearing in the development of effective communication functioning of hearing-impaired individuals.

Helene Freed — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-065 Occupational Information **S-226**

This course is designed to help administrators, counselors and teachers to better meet the needs of youth through complete guidance techniques. The course is organized to help competencies in the following areas of Occupational Information: classification and description of jobs and industries, occupational trends in relation to socio-economic changes, collecting information, filing information and evaluating information about occupations and training. Emphasis will be placed upon the using of Occupational Information, with groups and with individuals, in the public school system.

G. Flint Taylor — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-305 Reading in the Content Areas (Int) **S-228**

Role of Reading in Social Studies, Science, Mathematics, English and other subject areas in the Elementary School with a critical examination of practices and materials.

Virginia Bereit — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-470 Sociology of Education **S-225A**

A course designed to study education, emphasizing the social process as well as the institutional structure. Particular attention will be given to the social roles of teachers, administrators, pupils, the group basis of education and community influence.

Frank C. Pizziferri — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-775 Intro to Philosophical Foundations of Education, SecA **S-231**

This course is an historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through Western thought to the present day. Selections from the great documents in educational thought are studied in relation to the historical period in which they are produced. The student is expected to read and analyze the original contributions of the major educational philosophers.

William K. Masterson — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-879 Ichthyology **S-132**

A study of the biology of fishes, including evolution, systematics, distribution, ecology, physiological adaptations, and natural history. Emphasis on freshwater, estuarine, and coastal forms native to the New England area. A minimum of two field trips required.

Terry Graham — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F9-051 Research in Education, Sec A **S-217**

The course will stress the use of appropriate research methods in selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research report. Major areas of emphasis will include the nature of and criteria for evaluating research, library techniques and format of report and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study. Prerequisite: A bachelor's degree from an accredited college.

Alfred F. Eddy — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F9-087 Supervision in Todays' Schools **S-227**

This course is designed as an introductory course in supervision for teachers, school administrators and supervisors at both the elementary and secondary school levels. Significant topics included in the course are: concepts of supervision; principles of supervision; organization for supervision, group process; techniques of supervision and the evaluation and improvment of instruction, curriculum and the supervisory program.

Opportunity will be provided for concentrated study and application of the materials of the course to elementary, secondary or special subject work. This course, or its equivalent is prerequisite for all advanced courses in supervision.

Ruth Griffiths — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F9-092 Public School Administration **S-212**

A historical, philosophical and sociological study of the American School Administrator with a major emphasis on the function, duties and responsibilities of the school administrator. A practical investigation into the daily problems, roles, techniques and evaluations that are required by the administrator.

Theodore Provo — Mondays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-015 Characteristics of Children With Learning Problems **S-224**

This course provides a basic understanding of the learning disabled child through a consideration of the history and development of the area; the terminology and the current points of view. Factors which impede learning will further be analyzed through a discussion of diagnostic procedures. Class size limited to 20.

Barbara Desrosiers — Tuesdays: 7-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F8-159 Children's Literature **S-217**

This course is designed to broaden teachers' acquaintance with literature suitable for elementary school children and to present effective procedures for fostring a love of good reading. Topics covered will include the classics, current fiction and non-fiction, the Newberry and Caldecott Awards, effective techniques of story-telling, interpretation of verse for children, illustrators of children's book, and sources of display materials.

Mary Meegan — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F8-159 Principles of Graphic Communication LRC-112

Covers the language and design of graphic communication media involving principles from psychology and visual arts. Laboratory exercises in the creation of opaque and transparent visual imagery are included.

Garrett Mitchell — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F8-160 Producing and Directing the Television Program LRC-160

The course is designed to familiarize the student with all aspects of closed circuit television production including sound, lighting, graphics, staging, production and equipment operation. The student will write, direct and operate camera and video tape recorder in the production of a program.

Robert Jones — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F8-175 Contemporary Drama S-225A

A study of representative plays by major American, British and Continental playwrights since World War II. Dramatists included will be Williams, Miller, Albee, Pinter, Arden, Bond, Beckett, Ionesco, Frisch and others.

Jeffrey Roberts — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 10, 1973

F8-610 Fundamental Spanish I S-225B

The objective of this course is to establish a language proficiency at a level which makes possible daily communication. It is based on the famous Saint-Cloud Method which stresses:

1. The use of basic Spanish vocabulary and grammar beginning with the first lesson.
2. The progressive acquisition of vocabulary and structures based on "center of interest" as presented in the audio-visual materials used in the method.

The course should prove beneficial to persons (such as teachers, nurses, doctors, lawyers, social workers and good neighbors), who wish to establish better communication and understanding with the Spanish-speaking people with whom they come in contact in their professions or daily life. Undergraduate students interested in fulfilling a distribution requirement or who find it impossible to fit the study of a language into their daily schedule, may also find the course of value.

Katherine M. Shea — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F8-861 Elementary Space Science **S-224**

This course will make a study of the physical science that make possible man's travel into space. It will consider relevant topics from Astronomy, Geology, Physics, Chemistry and Biology as the composition of the earth, the physical laws of space, rocket propulsion, space navigation and human survival. Although this course is structured primarily for teachers in the elementary grades, registration is open to others with the consent of the instructor.

Harold Chapman — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 1, 1973

F9-069 Individual Intelligence Appraisal (Binet) **S-227**

This course will be concerned with a study of the origin and use of the Stanford-Binet Intelligence Test. Students will learn how to administer, score and interpret the 1960 revision of the Binet. A certificate will be given to those who successfully complete the course. Prerequisites: Measurement and Evaluation, Advanced Psychological Foundations of Education.

David H. Quist — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F9-079 Administrators and Reading **S-226**

Purposes of the course include an examination of various theories in the field of current reading programs in school systems, issues under debate by laymen and professionals. Study would involve topics such as the role of the community school in reading programs, pre-kindergarten instruction in reading, uses of reading tests. Other areas in decision-making of administrators could be included.

J. Francis O'Mara — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F9-776 Advanced Philosophical Foundations of Education, Sec A S-231

An existential approach to the nature and meaning of education. This course is designed to examine the basic metaphysical principles of the major philosophers and to demonstrate how they effect the existence of the individual and dominant theories of education in the western tradition. Contemporary social, philosophical and moral issues will be evaluated in conjunction with these theories in an effort to arrive at a positive and viable foundation for the education of the person and society. The student will be expected to work with primary source material. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.

Donald F. Traub — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F9-814 Education of the Gifted S-214

The identification, characteristics and personality factors of the gifted; the teacher's role and various organizational patterns; innovative procedures and techniques to nurture creativity.

Sr. Josephina Concannon — Tuesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 11, 1973

F8-003 Individualizing Instruction in Elementary School Science S-227

This course will examine several approaches to individualism of instruction in elementary school science. Teachers will have an opportunity to design science activities consistent with individualization based on existing curricula. It is hoped that these activities will be tried out with children and evaluations made. Environmental education will be encouraged. The course will be individualized.

Charles E. Geer — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-010 Secondary Social Studies Curriculum S-228

The following class is prepared for inclusion in the offerings for school this year. The course is designed particularly for secondary school social studies teachers, administrators, curriculum directors and college seniors who intend to become social studies teachers.

The purpose of the course is to increase the knowledge and deepen the professional experience of social studies teachers. This would be accompanied by an examination and evaluation of several social studies curriculums.

Joseph E. Zegarra — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-045 Rhythm Problems and Allied Disorders of Speech S-128

Major theories of stuttering and associated problems, e.g. cluttering basic therapeutic procedures for children and adults.

John McLaughlin — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-105 Student Centered Language Arts Curriculum S-228

Developmental English Curriculum featuring variety of innovative approaches and assignments for secondary school.

Chad Osborne — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-165 Introduction to Slide-Tape Program **LRC-112**

Philosophy and analysis of techniques used in the media program through design and development of audio and slide tape production. Course will stress tools used by the producer, techniques of producing; including scripting, development, audience and content analysis; choice of format; and the creative process.

Prerequisite: ME 150 Introduction to Photography, or consent of instructor.

Charles T. Goldstone — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-202 Literature and Social Change **S-211B**

Examines the role of literature in society as a means of protesting social abuses and effecting social change; in various genres, periods, and traditions by such writers as Swift, Blake, Shaw, Camus, Brecht, and Steinbeck studied in terms of the author's social concern and impact; an attempt to measure the actual effect on society of at least one writer's work.

Robert Walker — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-221 Medical Sociology **S-231**

This course will center on two related areas within the field. One area is the social organization of hospitals and the patterns of interaction within which doctors, nurses, patients and staff function. This will also include a discussion of the attitudes held by the medical staff toward terminal patients and death in the hospital setting.

The second area will deal with mental hospitals and the social-psychological processes of becoming a patient, the processing of the patient within the hospital, and the career of the patient.

Discussions in both areas will emphasize inter-personal relations between doctors, nurses, hospital staff, patients, and patients' families within the hospital setting and outside it.

Baheej Khleif — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-296 Athletic Injuries-Prevention and Cure **S-211A**

Coaches who must perform training duties will review in this specialized course basic Anatomy, Physiology and Kinesiology. With the assistance of guest consultants and demonstrations students will familiarize themselves with the types of injuries to each major body area. The history, first aid treatment and taping, and rehabilitation will be discussed.

Francis T. Dyson — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-576 Number Theory **S-225B**

A thorough and concise exploration of some of the fundamental properties of the natural number system. Topics will include: Divisors and prime numbers, fundamental properties of congruences, polynomial congruences and quadratic residues.

Robert Redding — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-611 Readings in Spanish Literature **S-219A**

Selected readings of masterpieces from Middle Ages to present; social, cultural, stylistic features of different periods.

Katherine M. Shea — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-616 Nineteenth Century French Literature **S-217**

Major movements through principle authors and works.

Vincent DeBenedictis — Wednesdays: 4:00-6:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-648 State and Local Government **S-225**

The course will explore the patterns of state and local government and inter-governmental relations. Emphasis will also be placed on metro-politan problems, the making of public policy and citizen control.

David J. Twiss — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-182 The Victorian Period **S-226**

Major mid-victorian poets...the Pre-Raphaelites and the Decadents, as they reflect the thought of the age.

Paul Edmunds — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-752 Advanced Psychological Foundations of Education, Sec A **S-224**

In this course clas-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.

Joseph A. Shea — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-875 Science, Technology and Society **S-301**

This course is concerned with the impact of science and technology upon the modern world. Representative problem areas which will be considered are: population, communications, transportation, energy, technological assessment, heatlh, space and government. There are no prerequisites.

Melvin Merken — Wednesdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-075 Curriculum for Early Childhood Education **S-227**

Attention in this course will be focused on the curriculum and the daily activities designed to enable young children to use their developmental powers to the fullest. Students will consider the ways and means by which the teacher creates an environment rich in learning opportunities, geared to the age-level characteristics of young children. New Methods being implemented in England and the United States will be included.

Josephine Polito — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-173 The Gothic Novel **S-225B**

Walpole's Castle of Otranto to G. Heyer's Cousin Kate.
No restrictions: Graduates and Undergraduates.

Nora Barraford — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-261 Art for the Classroom Teacher **Art Room**

In this studio workshop students will enrich their experiences in dealing with the art materials, skills and techniques valuable to the classroom teacher. A combination lecture, informal discussion and activity course will provide individual and group work in such areas as basic drawing, painting, lettering and modeling. Exhibits, reproductions and slides will be used as enrichment material.

Mary T. Dolphin — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-419 Introduction to Geology **A-315**

This course will serve as a general introduction to geological science. It will include material drawn selectively from both the physical and historical aspects of geology.

Attention will first be given to the composition of the earth and the processes at work on or near its surface. Then the long history of the planet will be surveyed, with attention focused on the evolution of life and the gradual development of present North American landscapes.

Robert E. Lingner — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-581 Linear Algebra **S-225A**

An introduction to the fundamental concepts and language of Linear Algebra: matices, systems of linear equations, vector spaces, linear transformations, determinants, eigenvectors, Euclidean spaces, quadratic forms. Designed for students who have completed a year of calculus.

W. Mack Hill — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-749 Theories of Personality **S-231**

This course is designed to survey the major theories of personality. Understanding the person and why he behaves as he does will be explored through different theoretical frameworks with consideration given to the author's background, dynamics of personality, development of personality, methods of research and evalution.

Richard A. O'Connor — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-750 Introduction to Psychological Foundations of Education S-217

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement and learning theory.

Joseph Lonergan — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-956 Social Genetics **S-132**

Traditional genetics conveniently presented for exploring and discussing the genetic aspects of contemporary bio-social problems. The course will emphasize the interaction of genetic and environmental influences on human behavior in society, the hereditary characteristics of population, family planning, heredity and aging, and bio-political decisions based on humanistic and scientific understanding of heredity and genetic diversity. Prerequisite: Six Semester Hours of Credit in Biology.

Thomas Roberts — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F9-057 Current Trends in The Teaching of Reading **S-228**

An investigation and evaluation of current trends in teaching reading. Research data on the efficiency of innovative practices

will be included. Current materials of instruction, hardware and software will be assessed.
Marion Jennings — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F9-082 Urban Education **S-224**

Course designed for teachers in the Inner City School Emphases: Current research on curriculum theory and practice, in teaching the disadvantaged. Role of community workers, parent contributions. Challenge and responsibility of the teacher in developing the cognitive and affective growth of every child. Development of appreciation of contribution of Negro and other ethnic groups to American Culture. (Research adapted to individual needs and interests of the group).
Catherine I. Quint — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F9-88 Organization and Administration Elementary School in the 70's **S-214**

This course will emphasize the many facets of elementary school administration and organization. The role of the principal as an administrator in the larger setting of present day education will be stressed. Specifically, the course will deal with the principal's role in organizing for teaching and learning, administering pupil personnel and special services and integrating school and community life.
George T. Joseph — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

F9-097 School Finance I **S-226**

This course concerns itself with the financial support and the allocation of resources in public education. Topics: personnel salaries: capital outlay; developmental expenditures: and the budgetary process. Topics to be considered are supply and demand in educational services and educational expenditures as a part of national, state and local income
Robert W. Goss — Thursdays: 4:30-7:00 p.m.
3 Semester Hours — Beginning September 13, 1973

EVENING CLASSES

TUESDAYS 7:00-9:30 P.M.

F8-164 Library Research **LRC 112**

Covers the most important sources of bibliographic information for both print and non-print media, techniques of searching,

citation, and compiling and evaluation bibliographies.
J. Hopkins — Wednesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 12, 1973

F8-201 The American Identity **S-211A**

This course will examine the characterization of the United States in major literary works by Whitman, Henry James, Hemingway, Hart Crane, Faulkner, and Robert Lowell, and in a selection of lyric poems of the last century. After reviewing the colonial American sense of a unique and divinely appointed destiny, the course will focus on such themes as the nineteenth century aspiration for a second, or cultural, declaration of independence, the post-Civil War attempts at national self-definition, and the subsequent preoccupation of writers with the American way of life.

Robert P. Ellis — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F8-224 Understanding Economic Issues **S-211B**

This course will acquaint the classroom teacher with the crucial economic issues facing the American public both locally and nationally. Basic study and class discussion will include but not be limited to wage-price controls and commodity, shortages, international trade deficits and dollar-gold relationships, revenue sharing, urban taxation and welfare problems, and job opportunity in the Worcester area.

George Kelley — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F8-254 Environmental Design I **Art Rm.**

A studio course designed to develop awareness of visual environmental trends within the United States. Such areas will be investigated as the design of small urban spaces, townships, city esthetics, street furniture and systematic uglification of the environment.

Doris Carter — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F8-480 Delinquency in Education **S-219A**

An examination of theories of delinquency, with application to the field of education. Major emphasis will be given to the child who does not succeed in school, focusing on reasons other than ability for this problem. In addition, a sociological analysis of the background of the child, both past and present, will be attempted for all social class levels.

Francis Brooker — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F9-066 Pupil Personnel Services **S-227**

This is a required course for personnel workers in the public schools. This course will introduce occupational, educational, and personnel career studies for appraisal and evaluation; statistical analysis of job needs and opportunities; use and function of school and out-of-school agencies; local state and federal job studies and opportunities; clinical procedures; a full review of the most important aspects of personnel work on the elementary, secondary, and college levels. Setting up and appraising personnel programs on all levels will be stressed and studied.

Philip Steinkrauss — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginnng: September 11, 1973

F9-090 School Law **S-212**

This course is designed to acquaint administrators and teachers with school laws affecting public education in the United States, with particular emphasis upon the state and community laws of Massachusetts. Attention will be given to such topics as legal status of school committees, contractual rights and obligations of teachers, the suspension and expulsion of pupils and school attendance.

John E. Scola — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September 11, 1973

F9-753 Advanced Psychological Foundations of Education Section B **S-217**

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools.

Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.

Prerequisite: 9 semester hours undergraduate credit in General Psychology and Educational Psychology or their equivalency.

Bernard Guarini — Tuesday: 7:00-9:30 p.m.
3 Semester Hours — Beginning: September, 11, 1973

F8-072 Driver and Traffic Safety Education **S-219A**

A course designed to give the elementary education teachers and the secondary school teachers the opportunity to discuss mutual problems and to develop curriculum and teaching materials needed in the field of driver and traffic safety education. The

course will include classroom sessions, discussion groups, work sessions and experiences.

Anthony Capozza — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-251 Music Appreciation **S-124**

This course is offered to help anyone interested in increasing his knowledge and enjoyment of music. Periods covered include Renaissance, Baroque, Classic, Romantic and Twentieth Century. Recordings and listening are important. No prerequisites or previous musical background is required.

Louis Celona — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-258 Drawing in Various Media **Art Room**

The purpose of this course is to heighten your level of visual awareness. Both realistic representation and abstract statements will be explored using such media as pencil, ink, conte crayon and so forth. No prerequisities.

Doris Center — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-264 Design With Wood **G-23**

The course would cover basic design principles, the nature of wood as a design material and the application of these principles and concepts to the design and fabrication of relatively simple furniture. In essence, the course will be a design workship.

Michel Merle-Daniel Dick — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-278 Advanced Photography **LRC-122**

Covers principles and applications of the zone system of photography, the characteristics of photographic materials. Critiques of students' work will be given.

William Byers — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-294 Health Systems in America **G-22**

A one semester course focusing on the administration of institutions in the health area. This course covers the basic concept in health and medical care system management, the provision of health and medical care, the government's role in the provision of health and medical care, and finally problems, topics and issues in American health and medical care system. Students will be expected to demonstrate not only comprehension in these areas but

also the ability to analyze major components (and relationships between components) providing health care, the ability to apply knowledge in a research report, and finally comprehension of basic health policies or goals towards which the health system is committed as well as comprehension of real world perspectives which health and medical leaders bring to the accomplishment of these policies and goals.

Robert Burmeister — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-775 Introduction to Philosophical Foundations of Education, Sec B **S-224**

This course is a historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through Western thought to the present day. Selections from the great documents in educational thought are studied in relation to the historical period in which they are produced. The student is expected to read and analyze the original contributions of the major educational philosophers.

Courtney Schlosser — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-052 Research in Education, Sec B **S-214**

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of report and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.

David W. Hilton — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-063 Techniques of Counseling **S-217**

This course is intended for teachers and others interested in guidance. Principles of counseling and the application of basic and advanced techniques to the counseling process will be included. Case studies and personal educational and vocational problems on the elementary, secondary and college levels in counselor situations will be presented.

Leonard Farrey — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-777 **Advanced Philosophical Foundations of Education, Sec B** **S-228**

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions.

The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent synthesis of viewpoint may be achieved. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.

Neil Brophy — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F9-949 **Reproductive Physiology** **S-132**

Reproductive Physiology deals with the influence of the sex hormones on the reproductive system, beginning with embryogenesis and early maturation and extending into the areas of fertilization, pregnancy, gestation, parturition and lactation. Outside readings are required and at least six semester hours of Biology, preferably including a course in Physiology or Endocrinology.

Carol Chauvin — Wednesdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 12, 1973

F8-060 **Principles and Practices in Guidance** **S-217**

This is an introductory course designed to provide the student with an understanding of the need, meaning and scope of guidance services. The principles and practices involved in the following guidance areas will be considered; introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording and evaluating data; interviewing and counseling; guidance through group activities; placement and follow-up activities; organization and evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program. Note: this course or its equivalent is a prerequisite of advanced courses in guidance.

Joseph Scannell — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-062 **Counseling and Psycho-therapy** **S-226**

An advanced course incorporating the concepts and techniques of psycho-therapy into school counseling to treat the personality and behavioral disorders frequently encountered in a school setting.

Emphasis is on the use of sustained counseling to ameliorate some of the factors that hinder the learning process. Diagnosis, deciding course of treatment and dynamic factors involved in therapy are considered. Case materials from the students' and instructor's work used for illustration of special problems.
Prerequisite: Techniques of Counseling
Richard Gilmartin — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-098 The Computer as an Instructional Aid — Ampi-theatre

This course is designed to familiarzie students with the use of the computer in the classroom. It will develop the Computer's Assisted Instruction. The computer languages used will be Cobol on a batch processing machine and Basic in a time sharing terminal environment.
John Dowling — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-199 Jacobean Drama — S-224

A study of plays by the contemporaries of Shakespeare: Beaumont, Chapman, Fletcher, Ford, Jonson, Massinger, and Webster.
Paul Edmunds — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-647 The Isolationist "Iceberg" and American Foreign Policy, 1914-1972 — S-225B

This course will examine the American isolationist tradition as a pervasive, although at times, sub-surface theme in American foreign policy down to most recent times.

The chronological focus of the course will be the period, 1914-1972. Within that framework the course will concentrate on the major challenges to the tradition; the mutations in the tradition produced by these challenges; and those remnants of the tradition that may have affected most recent foreign policy of the United States.
Robert G. Kane — Thursdays: 7:00-9:45 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-748 Inter-personal and Trans-personal Experiencing — S-211A

This course is for people who are interested in exploring the inter-personal and transpersonal dynamics of human consciousness, in a group setting. The somatic, psychic and intellectual centers of the self will be focused upon, for the purpose of developing one's own sense of self in relationship to other persons. Theory and techniques for inter-personal and trans-personal experiencing, will be drawn from Existential Philosophy, Gestaltism, Zen Buddhism,

and Psycho-synthesis. Emphasis will be upon awakening and developing a consciousness about one's potential for human encountering and personal fulfillment.

Courtney Schlosser — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

F8-863 Physical Chemistry for the Life Sciences S-301

This course offers an elementary presentation of Physical Chemistry for students primarily interested in the Life Sciences. The elements of thermodynamics are presented and applied to reactions of biological interest. The focus is on the concepts of free energy, entrophy and equilibrium. The theory of the rates of chemical reactions is presented and applied to enzyme-catalyzed reactions.

Ronald Harris — Thursdays: 7:00-9:30 p.m.
3 Semester Hours — Beginning September 13, 1973

FOR FURTHER INFORMATION CONCERNING YOUR PROGRAM OF STUDY: PLEASE CONTACT

Mr. John F. Eager, *Director*
Mr. Paul F. O'Neil, *Associate Director*
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Mr. Plummer
Learning Resources Center